

1st & Final Bill WD-EE/ELE/RKN/W.0/20/2021-22 Dtd: 29/12/2021 Job: 016-21-000010

M. A. R. 57 (Rule 116)

No. E

Measurement Book

372143

M/S. Sri Maruthi Electricals.

Serial No.

Name of work Providing tubular poles, street light fittings and AB/V4 cable along with

Name of Contractor of nature of Agency required Accessories at BPW Road from pipe line road

Date of commencement of work To HMT Railway bridge, card no-16, R.R. Nagar Zone.

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
1	Supplying of 1.1.kV LT V4 cable XLPE or Heat resistant PVC insulated, PVC extruded inner sheath armoured. U4 LT cable as per IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms (kms (max) as per IS-3975; 3.5 core 25 sqmm.						
	CE & TC						
	Labour charges for laying of 1.1 kv class V4 cable in existing trench at pipe / stone ware pipe / on wall / on pole as required. On wall / structure 25 sqmm to 75 sqmm						
		Rmt →	78x	160.0	=	12480.00	
		Rmt →	78x	5.0	=	390.00	

MEASUREMENT BOOK

Date 1	Full description, etc. of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	3. Supplying and fixing Microprocess Based Astronomical timer switch with using necessary bolts, nuts and washers. Each → $5 \times 3150.0 = 15750.00$						
	4. Supplying and fixing angle iron frame work fabricated out of m.s. angle iron and m.s. flat with bolts, washers etc. and painted with 2 coats of red oxide and then two coats of approved paint $50 \times 50 \times 6$ mm. Per Mtr → $12 \times 235.0 = 2820.00$						
	5. Supply and fixing of 4 pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc. complete with AC-3 Rating and as per IS-13947 100 to 125 Amps Each → $5 \times 5700.0 = 28500.00$						

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Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
6.	Supplying and fixing hytium plastic sheet 3mm thick with necessary nitches for fixing switches, regulatory etc and fixing on existing wood or metal box using N.F. screws. c 8/12	Sqcm - 7950	0.11			875.00	
7.	wiring for lighting/power circuit using one of pvc insulated 1100v grade, stranded Aluminum wire single core in open or concealed system of wiring 4. Sqmm. 184	Mtr → 296	7.0			2072.00	

MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
8.	Supply of LED street luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Dyjetron moulded polycarbonate material, delivering superpower light output. Rated life burning hrs 50000 hr @ Lumen Maintenance of 70-1. Maximum light intensity should between 60 degrees to 70 degree. Housing with supplier word mark / name shall be Engraved / Embrossing on the die cast housing / Body part. Warranty of 2 years against any manufacturing defect working under standard electrical conditions etc complete as per the specifications of sheduk B. LED street light 90watts, No → 16 × 3650.0 = 58400.00						

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Date 1	Full description, etc, of work 2	Dimensions			Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6	
	9. Fabricating supplying and erecting swaged tubular pole of height. Mtr having three sections and providing two coats of red oxide paint and finished with two coats of enamelled paint of approved quality and colour and M.S base plate suitable size welded at the bottom of the pole and 40mm dia GI flexible PVC pipe of 1 mtr length fitted to the heavy gauge polycarbonate control base including 5way connector of size 167 x 125 x 82 mm for 7.5m pole 200x160x98mm for remaining length of pole etc complete as per the specification of schedule B - Each $\rightarrow 25 \times 9320.0 = 233000.00$					

MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
10.	Supplying tinned copper burs and crimping and wiring to terminal point for wire of the following sizes .25 sqmm. long long barrel.	Each	15	10.0		= 150.00	
11.	Supply and installation (fixing) provision of outdoor type thermoplastic Modular Panel enclosure with transparent polycarbonate Lid, shock proof, IP65, rust proof, dust proof, water proof, corrosion proof) having internally Embedded gasket on both lid and flap suitable to fix single phase / three phase Energy Meter in suitable base plate and having a provision for Fuse/MCB cutout with suitable transparent hinged flap opening for operating MCB along with complete tamper proof sealing facility	Each	5	4550.0		= 22750.00	
	300 x 450 x 214 mm						

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Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
12	Supplying and fixing telescopic m.s. bracket fabricated by using 0.5m length 4" dia telescopic m.s. pipe with 2" dia 1.5m long m.s. bracket and are welded with suitable angle, using 6mm thick m.s. sheet, grip, bolts & nuts, as required, suitable for 9 to 12 mtrs m.s. tubular pole, with necessary two coats of painting, with all other accessories. Single bracket 1.5 mtrs length Each → $25 \times 810.0 = 20250.00$ AEF (Ele.)	-	-	-	-	-	-

MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
13	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and "C" type curve, indicator ON/OFF, energy class-3 with short circuit breaking capacity of 10k and complete wiring with as required conforming to IEC 60898, 50-63 Amps. TPN.						
						Each → $5 \times 2150.0 = 10750.00$	
14	Supplying & fixing of porcelain fuse channel with cut out on existing wooden panel using necessary nuts, bolts and washers .63 Amps.					Each → $5 \times 195.0 = 975.00$	
	Sub-total Part-A					= 1109162.00	

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Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
15	Supplying and stringing of 1.1KV grade Aerial Bunched cable stranded & Compacted Aluminum phase conductor, and stranded Messenger conductor with all aluminum Alloy, Phase Conductor is insulated with XLPE compound, insulated messenger with specified IS-14253:1995 & confirming to GTP of GROUP-A					1-2x16 + 1x25 Sq. mm. Mtr. → 2495 x 75.0 = 187125.00	
16	Supplying and stringing pole clamp for LT AB cable					Each → 55 x 210.0 = 11550.00	

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Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
17	Suspension clamp Assembly 16 to 70 mm (Excluding pole & Eye Hook) (Material cost + labour charges) <i>Set → 55 × 180.0 = 9900.00 ✓</i>						
18.	Dead End clamp / Anchor clamp Assembly 25 to 95 sqmm (excluding pole clamps and Eye hook) Material cost + labour charges <i>Set → 15 × 165.0 = 2475.00 ✓</i>						
19.	Universal Hook, Bolts & nuts including fixing charges (Material cost + labour charges) <i>No: 55 × 85.0 × H 675.00 ✓</i>						
20.	Piercing connector suitable for 16 sqmm - 95 sqmm AB cable street light connections including fixing charges (Material cost + labour charges) <i>No → 100 × 135.0 = 13500.00 ✓</i>						
	Total					= 229225.00 ✓	
	Add 12% GST Part A only					= 49099.00 ✓	
	Total Bill Amount					= 687486.00 ✓	

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		Number 3	Length 4	Breadth 5	Depth 6		
	Providing Tubular poles, street light fitting incl AB/V4 cable along with seggered Accessories at BFW Road. From pipeline Road to HMT Railway Bridge Ward NO-16-						
S/NO	Location	ABCable(Mtr)	Tubular Pole	90mm dia LED	Timer Box	V4 Cable in mtrs	
1.	BWF Road Existing pole to tubular pole	30	1	1	0	0	
2.	Pole NO 1 to Pole NO 2	29	1	1	0	0	
	HMT Circle (Opp. HMT Govt school)						
1.	Existing LT RCC pole to Existing LT RCC Pole 1	80	0	0	0	0	
2.	Existing LT RCC pole NO-1 to New pole NO-1	30	1	1	1	15	

MEASUREMENT BOOK

Date 1	Full description, etc, of work Location	Dimensions				Contents U4 cable in mtrs.	Reference to last Measurement 8
		Number AB cable	Length Tubular pole	Breadth 90 width LED	Depth Tingy Box		
✓ 3.	Pole no -1 to pole NO 2	30	1	1	0	0	
✓ 4.	Pole NO 2 to pole NO 3	32	1	1	0	0	
✓ 5.	Pole NO 3 to Pole NO 4	31	1	1	0	0	
✓ 6.	Pole NO 4 to Pole NO 5	30	1	1	0	0	
	<u>HMT Road (BBMP Basket ball Court)</u>						
✓ 1.	Existing LT Line to New Tubular pole (28 pin)	30	1	1	1	15	
✓ 2.	Pole no -1 to Pole NO 2	32	1	1	0	0	
✓ 3.	Pole NO 2 to Pole NO 3	30	1	1	0	0	
✓ 4.	Pole NO 3 to pole NO 4	31	1	1	0	0	
✓ 5.	Pole NO 4 to pole NO 5	32	1	1	0	0	
✓ 6.	Pole NO 5 to pole NO 6	33	1	1	0	0	

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Date 1	Full description, etc, of work Location 2	Dimensions			Contents V/L cable in Mtrs.	Reference to last Measurement 8
		Number ABCable 3	Length Tubular Pole 4	Breadth go with LED 5	Depth Time Box 6	
	<u>Gangkogide Sri Kaling Road</u>		✓			
✓ 1	Existing LT Line to New tubular pole -	75	1	1	0	
✓ 2	Pole No 1 to Pole No 2	32	1	1	1	15 ✓
✓ 3	Pole No 2 to pole No 3	35	1	1	0	0
✓ 4	Pole No 3 to pole No 4	31	1	1	0	0
✓ 5	Pole No 4 to pole No 5	33	1	1	0	0
✓ 6	Pole No 5 to pole No 6	33	1	1	0	0
✓ 7	Pole No 6 to pole No 7	32	1	1	0	0
✓ 8	Pole No 7 to pole No 8	35	1	1	0	0

MEASUREMENT BOOK

Date 1	Full description, etc., of work Location 2	Dimensions				Contents UQ. Cable in mtrs. 7	Reference to last Measurement 8
		Number of Cable in mtrs. 3	Length Tubular Pole 4	Breadth 900 LED 5	Depth Timber Box 6		
	<u>BEL Circle Road.</u>						
✓ 1	Existing tubular pole to New pole	21	1	1	0	0	
✓ 2	Existing tubular pole to New pole 2	35	0	0	0	0	
✓ 3	Existing tubular pole 2 to New pole 3	26	0	0	0	0	
✓ 4	Existing tubular pole 3 to New pole 1	34	1	1	0	0	
✓ 5	Pole No 1 to pole No 2	31	1	1	0	0	
✓ 6	Pole No 2 to pole No 3	29	1	1	0	0	
	<u>Muthyala Nagara Bridge.</u>						
✓ 1.	Muthyala Nagara Bridge to Pole No 1 to pole No 39	2423	0	0	2	33	
✓ 2	Loop	24	0	0	0	0	
✓ 3	Cable Seg. 2-1.	48	0	0	0	0	
		2495	25	16	5	78	

100% Cash

100% Site

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372150

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Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	<i>Certificate:</i> 1. Work is Executed Satisfactorily. 2. This bill amount is claimed in this bill has not been claimed in any of the other previous bill. <i>[Signature]</i>					<i>[Signature]</i> 11C AEE (Est.)	

BR 20-06
18/05/2022

MEASUREMENT BOOK

MEASUREMENT BOOK								
Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8	
		Number 3	Length 4	Breadth 5	Depth 6			
	Rd 687486 = w/r Adjustments Details IT 6875 = w/r CGST 6.132 = w/r SGST 6.138 = w/r CBF 6.86 = w/r FSD - LC 6875 = w/r FINE - OTHERS - TOTAL 28,712 = w/r NETT 6,60,774 = w/r					Passed for Rs 6,87,486/- Only Nett Cheque Rs 6,60,774/- Only Adjustment Rs 28,712/- Only Rs in Words Six Lakh Sixty Thousand Seven Hundred Seventy four only Accts Supd. RRNZ BBMP	EE(E) RRNZ BBMP	